TABLE 3.10 Aquifer and Well Characteristics in New Jersey
00
Aquifer name and description
Aquifer withdrawals
in 1980 (Mgal/d)
Well characteristics
Depth (ft)
Common range
Yield (gal/min)
Common May range exceed
Remarks
Coastal Plain aquifers: Kirkwood-Cohansey aquifer system: Sand, quartz, fine to coarse grained, pebbly; local clay beds. Unconfmed.
70
20-350 500-1,000 1,500
Atlantic City 800-foot sand: Sand, quartz, medium to coarse grained, gravel, fragmented shell material. Confined.
Wenonah-Mount Laurel aquifer: Sand, quartz, slightly glauconitic, very fine to coarse grained, layers of shells. Confined.
Englishtown aquifer: Sand, quartz, fine to medium grained, local clay beds. Confined.
20
450 - 950 600 - 800
1,000
50-600
50-250
500
12
50-1,000 300-500
1,000
Ground water occurs generally under water-table conditions. Aquifer system extends from southern Monmouth County to Delaware Bay and from 12 mi southeast of the Delaware River to the Atlantic Ocean. Aquifer thickness can exceed 350ft. Brackish and salty water may occur in coastal areas.
Principal confined artesian aquifer supplying water along the barrier beaches in Cape May, Atlantic, and Ocean Counties. Aquifer thickness generally ranges between 100 and 150 ft. Water quality suitable for most uses.
Important confined aquifer in the northeast and southwest part of the Coastal Plain. Aquifer thickness generally range between 60 and 120 ft. Water quality suitable for most purposes.
Important source of water for Ocean and Monmouth Counties. Confined aquifer thickness generally ranges between 60 and 140 ft. Excellent